

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/527,597
Source: IFWO
Date Processed by STIC: 04/11/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , **EFS Submission User Manual - ePAVE**)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

$$10/527,597$$

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | | |
|----|--|--|
| 1 | _____ Wrapped Nucleic
Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 | _____ Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3 | _____ Misaligned Amino
Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead. |
| 4 | _____ Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5 | _____ Variable Length | Sequence(s)_____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 | _____ PatentIn 2.0
"bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7 | _____ Skipped Sequences
(OLD RULES) | Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8 | _____ Skipped Sequences
(NEW RULES) | Sequence(s) _____ missing. If intentional , please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000 |
| 9 | _____ Use of n's or Xaa's
(NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents. |
| 10 | _____ Invalid <213>
Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below) |
| 11 | _____ Use of <220> | <u>Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</u> |
| 12 | _____ PatentIn 2.0
"bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 | _____ Misuse of n/Xaa | "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u> |

IFWO

RAW SEQUENCE LISTING

DATE: 04/11/2006

PATENT APPLICATION: US/10/527,597

TIME: 11:22:15

Input Set : A:\2006-04-05 - 5094-0101PUS1.txt

Output Set: N:\CRF4\04112006\J527597.raw

3 <110> APPLICANT: ANDO, Yukio
 4 NAKAMURA, Masaaki
 5 NAGAHARA, Shunji
 7 <120> TITLE OF INVENTION: An agent for accelerating site directed gene conversion
 8 and a therapeutic agent of genetic disease
 10 <130> FILE REFERENCE: 5094-0101PUS1
 12 <140> CURRENT APPLICATION NUMBER: US 10/527,597
 13 <141> CURRENT FILING DATE: 2005-03-14
 15 <150> PRIOR APPLICATION NUMBER: JP 2002-274926
 16 <151> PRIOR FILING DATE: 2002-09-20
 18 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/011962
 19 <151> PRIOR FILING DATE: 2003-09-19
 21 <160> NUMBER OF SEQ ID NOS: 11
 23 <170> SOFTWARE: PatentIn Ver. 2.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 68
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Artificial Sequence
 30 <220> FEATURE:
 31 <222> LOCATION: (29)..(39)
 32 <223> OTHER INFORMATION: Description of Artificial Sequence:2'-O-methyl-RNA
 34 <220> FEATURE:
 35 <222> LOCATION: (45)..(54)
 36 <223> OTHER INFORMATION: Description of Artificial Sequence:2'-O-methyl-RNA
 38 <400> SEQUENCE: 1
 39 atcaatgtgg ccatgcatgt gttcattttu gaacacaugc atggccacau ugaugcgcgt 60
 40 tttcgcgc 68
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 25
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <222> LOCATION: (1)..(3)
 50 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 52 <220> FEATURE:
 53 <222> LOCATION: (23)..(25)
 54 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 56 <400> SEQUENCE: 2
 57 tgaacacatg catggccaca ttgat 25
 60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 45
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Artificial Sequence

Does Not Comply
Corrected Diskette Needed
Cpg-1-3)

Pls. Explain the source of Responses
is genetic Material. If C2132
is Artificial or Unknown. See
item # 11 on Error Summary
Sheet.

Same as above

Same error

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Input Set : A:\2006-04-05 - 5094-0101PUS1.txt

Output Set: N:\CRF4\04112006\J527597.raw

65 <220> FEATURE:
 66 <222> LOCATION: (1)..(3)
 67 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 69 <220> FEATURE:
 70 <222> LOCATION: (43)..(45)
 71 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 73 <400> SEQUENCE: 3
 74 gcagcctttc tgaacacatg catggccaca ttgatggcag gactg 45
 77 <210> SEQ ID NO: 4
 78 <211> LENGTH: 74
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Artificial Sequence *Same*
 82 <220> FEATURE:
 83 <222> LOCATION: (1)..(3)
 84 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 86 <220> FEATURE:
 87 <222> LOCATION: (72)..(74)
 88 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 90 <400> SEQUENCE: 4
 91 tcccaggtgt catcagcagc ctttctgaac acatgcatgg ccacattgat ggcaggactg 60
 92 cctcggacag catc 74
 95 <210> SEQ ID NO: 5
 96 <211> LENGTH: 74
 97 <212> TYPE: DNA
 98 <213> ORGANISM: Artificial Sequence *Same*
 100 <220> FEATURE:
 101 <222> LOCATION: (1)..(3)
 102 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 104 <220> FEATURE:
 105 <222> LOCATION: (72)..(74)
 106 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 108 <400> SEQUENCE: 5
 109 tcccaggatc cctcagaggt ctttttgaac actttcacag ccacgtctac agcagggctg 60
 110 cctcggacag catc 74
 114 <210> SEQ ID NO: 6
 115 <211> LENGTH: 74
 116 <212> TYPE: DNA
 117 <213> ORGANISM: Artificial Sequence *Same*
 119 <220> FEATURE:
 120 <222> LOCATION: (1)..(3)
 121 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 123 <220> FEATURE:
 124 <222> LOCATION: (72)..(74)
 125 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 127 <400> SEQUENCE: 6
 128 tcccaggtct catcagcagc ctttttgaac acgtgcatag acacgtcgac tgcaggactg 60
 129 cctcggacgg catc 74
 132 <210> SEQ ID NO: 7
 133 <211> LENGTH: 51

RAW SEQUENCE LISTING

DATE: 04/11/2006

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TIME: 11:22:15

Input Set : A:\2006-04-05 - 5094-0101PUS1.txt

Output Set: N:\CRF4\04112006\J527597.raw

134 <212> TYPE: DNA
 135 <213> ORGANISM: Artificial Sequence *7 Same*
 137 <220> FEATURE:
 138 <223> OTHER INFORMATION: Description of Artificial Sequence:DNA oligonucleotide
 140 <400> SEQUENCE: 7
 141 tcagcagcct ttctgaacac atgcatggcc acattgatgg caggactgcc t 51
 144 <210> SEQ ID NO: 8
 145 <211> LENGTH: 74
 146 <212> TYPE: DNA
 147 <213> ORGANISM: Artificial Sequence *Same*
 149 <220> FEATURE:
 150 <222> LOCATION: (1)..(3)
 151 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 153 <220> FEATURE:
 154 <222> LOCATION: (72)..(74)
 155 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 157 <400> SEQUENCE: 8
 158 ctctctcagtt gtgagcccat gcagctctcc agactcaatg gttttcctat aaggtgtgaa 60
 159 agtctggatt aagt 74
 162 <210> SEQ ID NO: 9
 163 <211> LENGTH: 74
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Artificial Sequence *7 Same*
 167 <220> FEATURE:
 168 <222> LOCATION: (1)..(3)
 169 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 171 <220> FEATURE:
 172 <222> LOCATION: (72)..(74)
 173 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 175 <400> SEQUENCE: 9
 176 cttgggattg gtgacgacag ccgtgggtgga ataggagcag gggctcagca gggcggaat 60
 177 ggtgtagcgg cggg 74
 180 <210> SEQ ID NO: 10
 181 <211> LENGTH: 74
 182 <212> TYPE: DNA
 183 <213> ORGANISM: Artificial Sequence *7 Same*
 185 <220> FEATURE:
 186 <222> LOCATION: (1)..(3)
 187 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 189 <220> FEATURE:
 190 <222> LOCATION: (72)..(74)
 191 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage
 193 <400> SEQUENCE: 10
 194 gcagtcaagg ttgcacatga agcgctccca gtgcagccag cccatggtag gcgtccttgc 60
 195 caatccattg tcca 74
 198 <210> SEQ ID NO: 11
 199 <211> LENGTH: 74
 200 <212> TYPE: DNA
 201 <213> ORGANISM: Artificial Sequence *7 Same*

RAW SEQUENCE LISTING

DATE: 04/11/2006

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TIME: 11:22:15

Input Set : A:\2006-04-05 - 5094-0101PUS1.txt

Output Set: N:\CRF4\04112006\J527597.raw

203 <220> FEATURE:

204 <222> LOCATION: (1)..(3)

205 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage

207 <220> FEATURE:

208 <222> LOCATION: (72)..(74)

209 <223> OTHER INFORMATION: Description of Artificial Sequence:Phosphorothioate linkage

211 <400> SEQUENCE: 11

212 gccatgatag cccagagggc catctgagtt acttgctgat tccagctgag gccaaagttg 60

213 ccaatcacta actg 74

VERIFICATION SUMMARY

DATE: 04/11/2006

PATENT APPLICATION: US/10/527,597

TIME: 11:22:16

Input Set : A:\2006-04-05 - 5094-0101PUS1.txt

Output Set: N:\CRF4\04112006\J527597.raw